

Application No.: 09/818,260  
Filing Date: March 26, 2001

PATENT  
Client Code: GENSET.076C1  
Page 1

ASSIGNMENT

714 Kennebeck Court

~~San Diego, CA 92109~~  
WHEREAS, I Nicholas J. Schork, a United States citizen, residing at 3185 ~~Belvoir Blvd., Shaker Heights, Ohio 44122~~, am a co-inventor of certain new and useful improvements in a METHODS OF DNA MARKER-BASED GENETIC ANALYSIS USING ESTIMATED HAPLOTYPE FREQUENCIES AND USES THEREOF; for which I have filed an application for Letters Patent in the United States, Application Serial No. 09/818,260, filed on March 26, 2001;

AND WHEREAS, 1) GENSET, S.A., a French Corporation, with its principal place of business at 24, rue Royale, 75008 Paris, France, and 2) Case Western Reserve University, a Corporation of Ohio, with its principal place of business at 10900 Euclid Avenue, Cleveland, OH 44106 (hereinafter "ASSIGNEES"), each desire to jointly acquire fifty percent (50%) of my interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt of which is hereby acknowledged, I do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEES, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEES, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I will communicate to the said ASSIGNEES, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEES, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

SIGNED this 22 day of October 2001.

  
Nicholas J. Schork

Attested by: Name: \_\_\_\_\_

Signature: \_\_\_\_\_

My Commission Expires  
NOTARY PUBLIC, STATE OF OHIO  
E. KAY SPATAFORE

E. KAY SPATAFORE  
NOTARY PUBLIC, STATE OF OHIO  
My Commission Expires  
3/22/05

ASSIGNMENT

WHEREAS, I, Dani Fallin, a United States citizen, residing at 1028 Patuxent St, Baltimore, MD, am a co-inventor of certain new and useful improvements in a METHODS OF DNA MARKER-BASED GENETIC ANALYSIS USING ESTIMATED HAPLOTYPE FREQUENCIES AND USES THEREOF; for which I have filed an application for Letters Patent in the United States, Application Serial No. 09/635,502, filed on August 9, 2000;

AND WHEREAS, Case Western Reserve University (hereinafter "ASSIGNEE"), a Corporation of Ohio, with its principal place of business at 10900 Euclid Avenue, Cleveland, OH 44106, desires to acquire my entire right, title, and interest in and to the said improvements and the said Application:

~~NOW, THEREFORE, in consideration of good and valuable consideration, the receipt of which~~  
is hereby acknowledged, I do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, my entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I will communicate to the said ASSIGNEE, successors, legal representatives and assigns, any facts known to me respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

SIGNED this 25 day of January 2001  
2000.

  
Dani Fallin

Attested by: Name Kimberly Basucci

Signature: Kimberly Basucci

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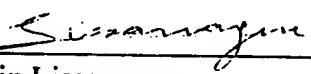
WHEREAS, I, Sebastien Lissarrague, a French citizen, residing at 14 Rue De Lancry, 75010 Paris, FRANCE, am a co-inventor of certain new and useful improvements in a METHODS OF DNA MARKER-BASED GENETIC ANALYSIS USING ESTIMATED HAPLOTYPE FREQUENCIES AND USES THEREOF; for which I have filed an application for Letters Patent in the United States, Application Serial No. 09/818,260, filed on March 26, 2001.

AND WHEREAS, GENSET, S.A. (hereinafter "ASSIGNEE"), a French Corporation, with its principal place of business at 24, rue Royale, 75008 Paris, France, desires to acquire my entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt of which is hereby acknowledged, I do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, their successors, legal representatives and assigns, my entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, their successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

SIGNED this 14<sup>th</sup> day of May 2001.

  
Sebastien Lissarrague

Attested by: Name: Laurent Fessieux Signature: 